

# Energy

---

Frank Cunningham  
Energy Center

EMI

# Agenda

---

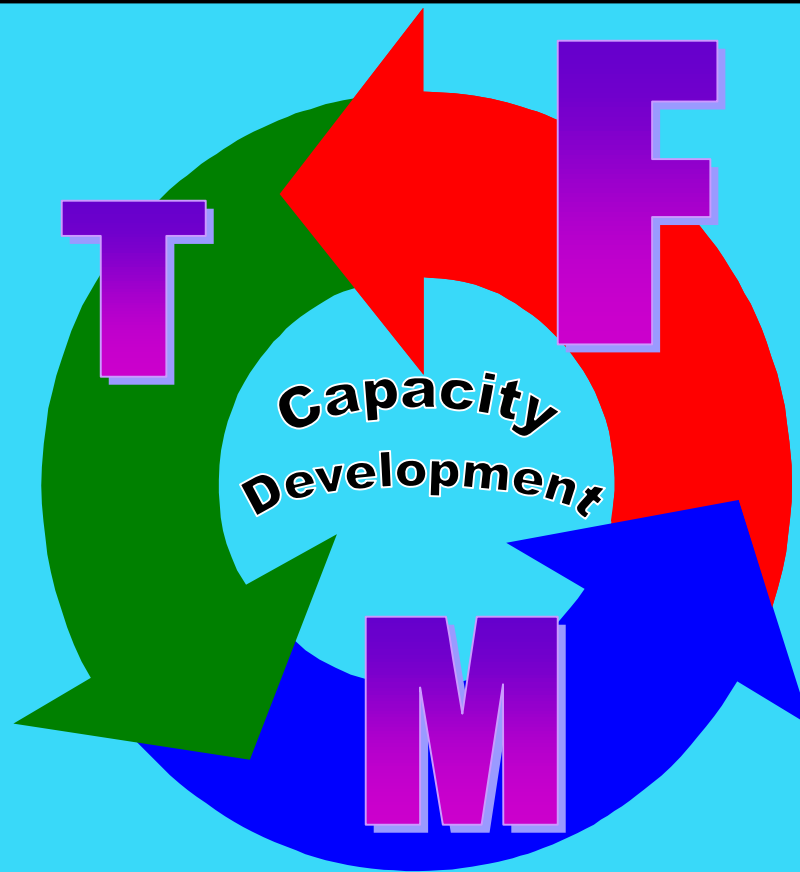
Energy issues

Energy Center programs

Funding opportunities

Questions and comments

# TMF Watch



EMI



Missouri  
Department of  
Natural Resources

# Energy Issues

---

Missouri spends over \$13 billion per year on energy

90% of that money leaves the state

Energy use = pollution (usually)

We need to keep more of that money here and improve our environmental quality

# Energy Center Programs

---

Business and Industry

Residential

Schools and Local Governments

State Government

Public Information and Education

Policy and Analysis

EMI

# Policy & Analysis

---

Analyze and recommend policies that benefit Missouri's economy and environment

Conduct energy price and supply assessments of heating and transportation fuels (issue bimonthly Missouri Energy Bulletin)

Maintain Missouri's energy emergency plan

# Funding Opportunities

---

- Low-Income Weatherization Program
- Energy Loan Program

# Low-Income Weatherization Financial Assistance

---

Funds passed through 16 community action agencies, one city government, and one not-for-profit organization

Eligibility: Low-income Missouri residents, especially the elderly, the physically disadvantaged and families with small children



# Energy Loans

---

For public schools, local governments, sewer and water districts, state universities & colleges, public hospitals to fund energy efficiency improvements

Help finance facility upgrades, and new construction (encourages efficient design)

What is eligible? Anything that reduces your energy costs!

EMI

# Energy Loans (ctd.)

---

## History:

- Approximately 340 loans since 1988
- Valued at more than \$47 million
- Saving more than \$8.2 million annually in net operating costs, including debt service on the loans
- In FY02: 23 loans awarded, totaling \$5.3M, saving an estimated \$774K annually

# Energy Loans (ctd.)

---

## What's New:

- Funding leveraged by bonds sold through EIERA
- Maximum loan amount increased to \$2 million
- Payback periods lengthened for certain projects
- Interest rates lowered

# Energy Loans (ctd.)

---

## Economic Benefits:

- Lower utility bills and lower net operating costs
- Expedites capital improvements
- Creates jobs in the community
- Energy loans not treated as long-term debt

# Energy Loans (ctd.)

---

## Environmental Benefits:

Last year loan recipients cut emissions of

- Carbon dioxide by 25.1 million pounds
- Sulfur dioxide by 217,000 pounds
- Nitrogen oxides by 100,000 pounds

# Energy Loans (ctd.)

---

## Example Projects:

- Insulation upgrades
- Energy-efficient lighting fixtures (buildings & stadium lighting)
- Energy-efficient heating & cooling equipment
- Renewable energy projects

# Energy Loans (ctd.)

---

## New Construction Projects:

- Financing for energy efficiency designs and features that exceed minimum codes or traditional building practices
- This is the time to build it right. Let's partner!

# Summary

---

Like the “Reduce, Reuse and Recycle” scheme of waste reduction, we want to:

- Reduce energy costs and net operating costs
- Reduce pollution from energy consumption
- Reduce dependence on energy sources outside of Missouri and the United States
- Maximize Missouri’s energy, environmental and economic performance



# For more information

---

## Energy Center

- Visit our Web site at:  
<http://www.dnr.mo.gov/energy/homeec.htm>
- Or call the EC at:  
1-800-361-4827 or (573) 751-3443



# QUESTIONS ???

EMI



Missouri  
Department of  
Natural Resources

# Postscript

---

EMI



Missouri  
Department of  
Natural Resources

# Energy Loans

---

## Application:

- A copy of the application can be downloaded from our web site
- Application process is user friendly
- Simple projects can be documented with worksheets
- Complex projects may require a Technical Energy Study (TES)

# Energy Loans

## Application Support Documents:

- Technical Energy Study (TES) is a detailed study done by a P.E. where project measures are more involved and measures interact effecting savings estimates
- TES Equivalent is a short form or worksheet that documents savings on simple measures (e.g. lighting, windows, insulation, and some HVAC modifications)

EMI